

-1- (JAPIO)

ACCESSION NUMBER

86-079789

TITLE

CORROSION INHIBITOR OF METAL

PATENT APPLICANT

(2000307) TOSHIBA CORP

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PATENT NUMBER

86.04.23 J61079789, ~~J6079789~~

APPLICATION DETAILS

84.09.28 84JP-203571, 59-203571

SOURCE

86.08.29 SECT. C, SECTION NO. 369; VOL. 10, NO. 252,

PG. 98.

INT'L PATENT CLASS

C23F-011/167

JAPIO CLASS

12.6 (METALS--Surface Treatment)

ABSTRACT

PURPOSE: To provide a water soluble corrosion inhibitor made of a phosphine oxide compound having a specified structural formula and producing the effect on metals such as zinc in a basic atmosphere or the like.

CONSTITUTION: This corrosion inhibitor for metals is made of a phosphine oxide compound represented by the formula (where each of R¹, R² and R³ is H or 1-24Corg. group, preferably alkyl, arly or a deriv. thereof). The inhibitor is especially effective on Zn, Sn, Al and Pb in a basic atmosphere. It has superior solubility in a polar solvent such as water and is used after dissolution in the solvent by about 0.0001-1.0mol/l. Said alkyl may be alkanyl, alkenyl, alkynyl, cyclohexyl or cyclohexenyl, and said aryl may be phenyl, tolyl, benzyl, styryl or naphthyl.